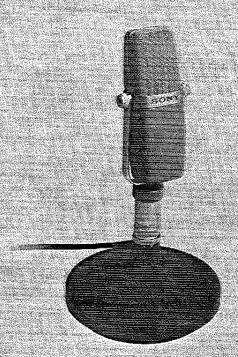
C-30B

Serial No. 5481 and later



FET CONDENSER MICROPHONE

SPECIFICATIONS

Battery: 9 V dc, battery size "006P" or equiv.

(IEC designation 6F22)

Power Supply: Standard operating voltage: 9 V

Minimum operating voltage: approx. 7,5 V Current drain: less than 2 mA (with battery)

less than 5 mA

(with external power supply)

Continuous battery duration: more than

200 hours with a 006P dry battery

Accepts external power supply of 24 – 54 V do
Directivity: Uni-directional and omni-directional

Directivity: Uni-directional and omni-directional and

Output Level:

Position of the	Output	Effective output level*1	Open circuit
Pad Switch	impedance		output level
(0)	250 ohms	-47.8 dBm	0.4 mV/μbar
[-8 dB]	250 ohms	-55.8 dBm	0.16 mV/μbar

Deviation ± 2 dB

*1 0 dBm = 1 mW/10 µbar, 1,000 Hz

Frequency Response: 30 Hz - 16,000 Hz

Noise Level: S/N ratio: better than 50 dB (1,000 Hz,

1 μbar)

Inherent noise: less than 24 dB SPL

 $(0 dB = 2 \times 10^{-4} \mu bar)$

Wind noise*2: less than 44 dB SPL

Induction noise of external magnetic

field*3: 5 dB SPL/m gauss

*2 Wind noise is the value measured by applying a wind velocity of 6.6 ft./s. from all directions to the microphone. The mean value is taken and converted to the equivalent input sound level.

 $(0 dB = 2 \times 10^{-4} \mu bar)$

*3 The external magnetic field induction noise is measured with the microphone placed in the alternating magnetic field of 50 Hz, 1 milligauss. The maximum noise value is taken and converted to the equivalent input sound level. (0 dB = 2 x 10⁻⁴ μbar)

- Continued on next page -



C-38B

Maximum Sound Pressure Input Level*4:

140 dB SPL:

*4 This is the maximum input level which produces less than 1 % wave distortion at the output with 1,000 Hz, and less than 1 % intermodulation distortion at the output

signal with 70 Hz - 7 kHz.

Dynamic Range: Approx. 116 dB

Acceptable Preser-

vation Temperature: -4° to 140°F (-20° to 60°C)

Proper Operating

Temperature: 32° to 140°F (0° to 60°C)

Microphone Cable: Approx. 5

Approx. 5.8 mm ($\frac{15}{64}$)inches) dia.

4-conductor shielded cable

with a CANNON XLR-3-12C plug,

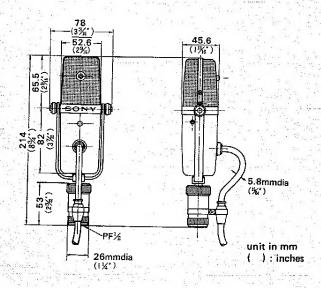
6 m (20 feet) long

Mounting Thread: PF1/2

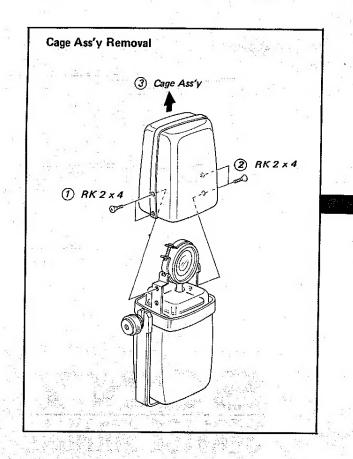
Weight:

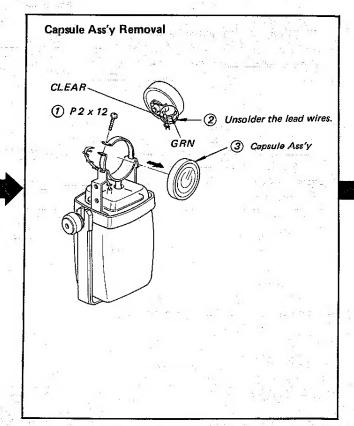
650 g (1 lb 7 oz) without cable

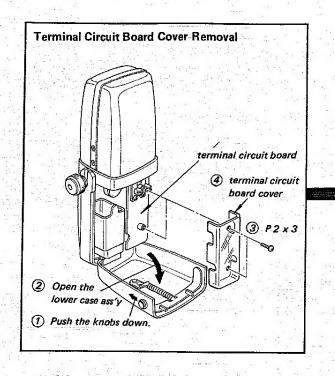
Dimensions:

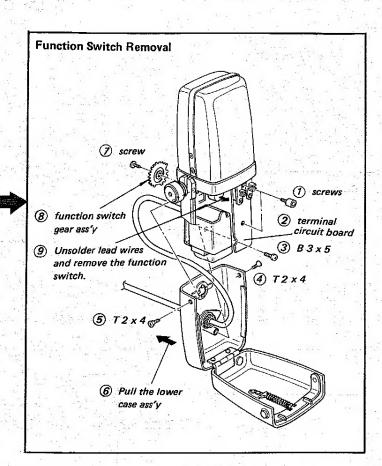


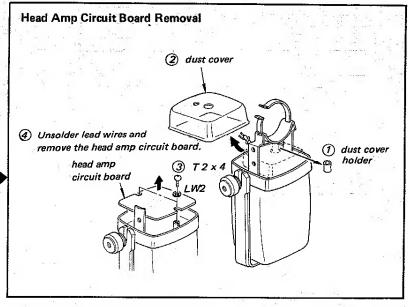
SECTION 1 DISASSEMBLY











SECTION 2 DIAGRAMS

2-1. MOUNTING DIAGRAM

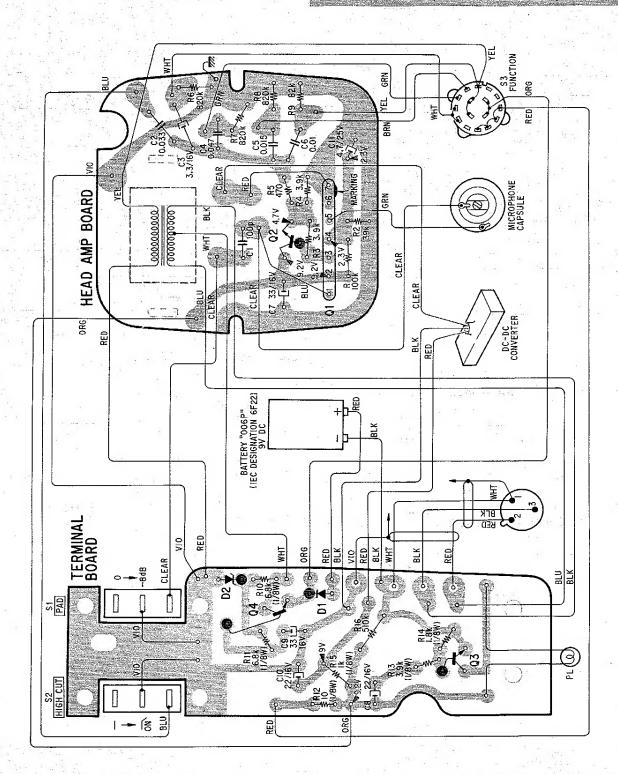
- Conductor Side -

CAUTION

The head amp board has been carefully adjusted at the factory.

If some trouble occurs on it, replace the head amp board as a part.

The parts on the head amp board are not individually available.



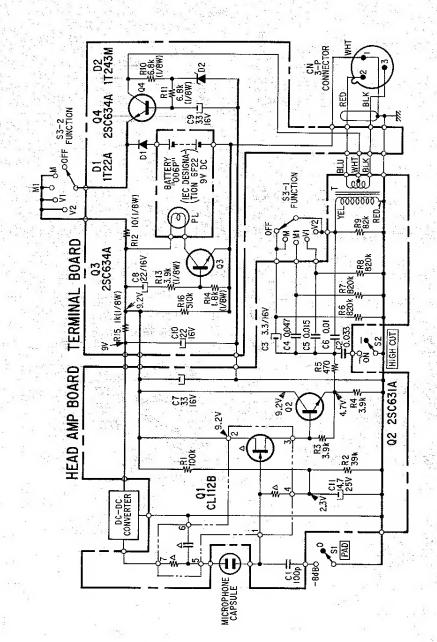
Note:

 國際關係 : B+ pattern

SCHEMATIC DIAGRAM

03, 4: 2SC634A

D1: 1T22A



Readings are taken with a 20,000-ohm-per-volt VOM.

Voltage variations may be noted due to normal production tolerances.

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			The second secon
	Ref. No.	Switch	Position
	S1	PAD	0
1	82	нісн сит	OFF
c	S3	FUNCTION	OFF

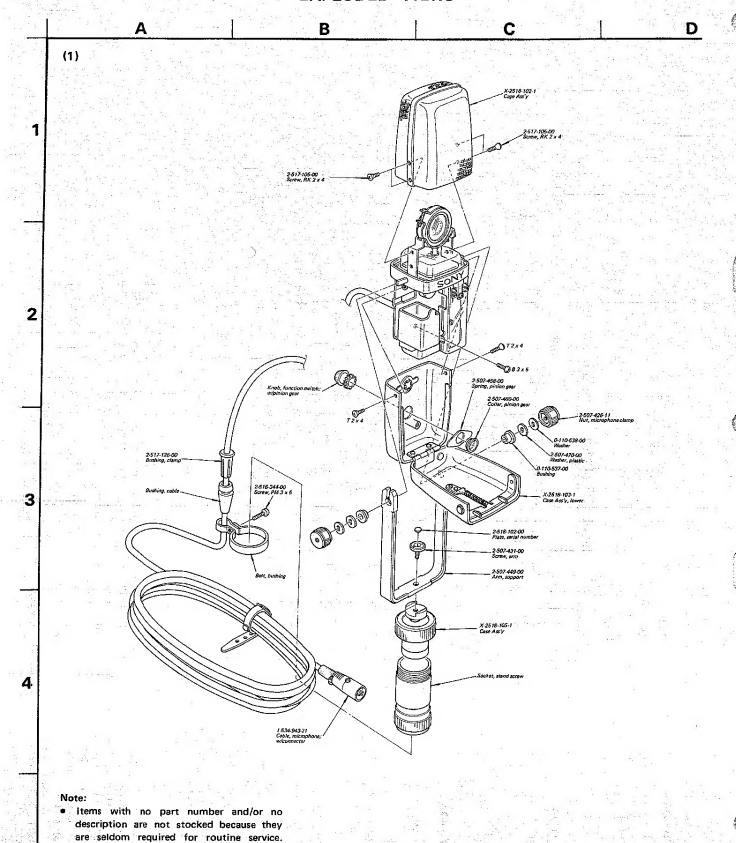
• All capacitors are in μF unless otherwise noted, $pF = \mu \mu F$ 50WV or less are not indicated except for electrolytics. All resistors are in ohms, ¼W unless otherwise noted. $k\Omega = 1000\Omega$, $M\Omega = 1000k\Omega$: internal component. . B+ bus. ٥

Voltages are do with respect to ground unless otherwise ☐: panel designation.

noted.

D2: 1T243M

SECTION 3 EXPLODED VIEWS

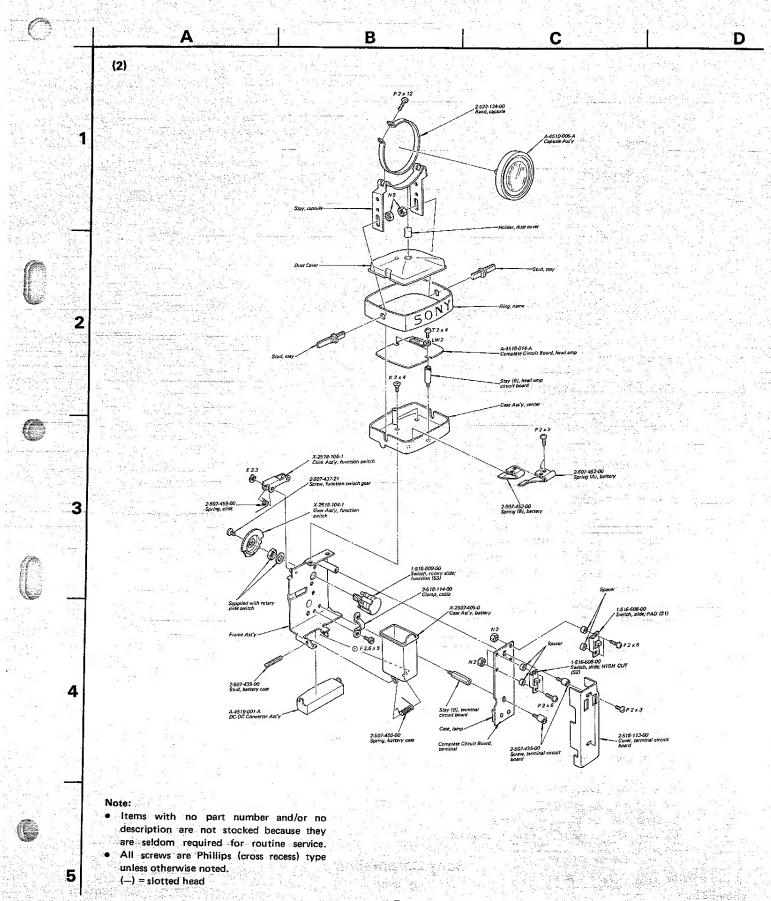


All screws are Phillips (cross recess) type

unless otherwise noted.

(-) = slotted head

5



SECTION 4 ELECTRICAL PARTS LIST

ACCESSORIES & PACKING MATERIALS

Description

Screwdriver

Carton

Adaptor, microphone stand

Bag, plastic; carrying case

Bag, plastic; microphone

Manual, instruction

Part No.

0-110-572-00

2-052-522-00

2-522-235-00

2-522-237-11

2-599-080-21

3-701-628-00

Ref. No. Part No. Description

COMPLETE CIRCUIT BOARD

A-4518-014-A Head Amp

SEMICONDUCTORS -

Transistors

Q3,4 2SC634A

Diodes

D1 1T22A D2 1T243M

CAPACITORS

All capacitors are in µF and electrolytic.

C8 1-121-990-11 22 16V C9 1-121-403-11 33 16V C10 1-121-990-11 22 16V

RESISTORS

All resistors are in ohm. $k\Omega = 1000\Omega$

R10, 11 1-202-032-11 6.8k 1/8W composition R12 1-201-856-11 10 1/8W composition R13 1-202-018-11 3.9k 1/8W composition R14 1.8k 1-201-650-11 1/8W composition R15 1-201-634-11 1k 1/8W composition R16 1-202-448-11 510k 1/4W composition

SWITCHES

S1, 2
 1-516-608-00
 Slide, PAD, HIGH CUT
 S3
 1-516-609-00
 Rotary Slide, function

MISCELLANEOUS

PL 1-518-268-00 Lamp, 4.5V, 40mA A-4510-006-A Capsule Ass'y

A-4519-001-A DC-DC Converter Ass'y

1-534-943-21 Cable, microphone; w/connector

Sony Corporation